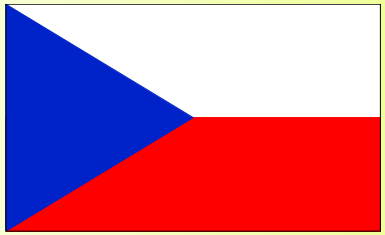
EDG and AliEn in Prague



Dagmar Adamova
INP Rez near Prague

Institutions participating in these Grid activities

- **Inside the HEP community**
- **Institute of Physics (FZU) -> Division of Elementary Particle Physics**
- **Institute of Nuclear Physics in Rez near Prague (INP)**
- **Charles University**

- **Outside the HEP community**
- The CESNET association - the Czech NREN operator and developer : EDG WP1 , WP6
- Suprecomputer centers in Prague (Czech Technical University), Brno (Masaryk University) and in Plzen (West Bohemia University) joined within the project MetaCenter : EDG WP6

The people involved from FZU and INP

- **Milos Lokajicek**, Division of Elementary Particle Physics at FZU: **deputy of Czech Republic in the EDG WP6 project & in the Grid Deployment Board of LCG project**
- Jiri Kuhn, FZU: installation of the EDG software
- Jan Svec, FZU: PC farm administrator
- Jiri Kosina, FZU: PC farm administrator
- Andrej Kugler, INP: MOSIX installations
- Dagmar Adamova, INP: testing edg, installing/testing alien
- . . . . .
- Jiri Chudoba, ... : alien, ALICE PPR production jobs

Institute of Physics AS CR (FZU)

- Contribution to HEP experiments in close collaboration with INP AS Rez , Charles University and Czech Technical University
  - ATLAS, ALICE, H1, D0, Auger
- Computing equipment: **64 nodes PC farm**, unix servers, Linux PCs
- **Network -sitting on the 1 Gbps link connecting the FZU with the PASNET (Prague Academic and Scientific Network) --> CESNET -> GEANT**
- Ready to join the DataGrid testbed

The PC farm at the FZU (1)

- golias.farm.particle.cz
- 32 dual PIII 1.2GHz, 1 GB RAM, 18 GB SCSI HDD, Gbit Ethernet rack servers
- Mass storage disc array 1TB: HP server TC4100, 256MB RAM, 15x73 GB SCSI HDD
- 10 TB tape drive unit
- SW - RH7.2 on all nodes
- PBS batch queing system

The PC farm at the FZU (2)

- **EDG v. 1.4.3 installed** on the golias server
  - **UI, CE, SE, RC ...**
  - **Submitting jobs into testbed OK**
  - **Not yet recognized by the testbed, must issue dg-job-submit -r golias.farm.particle.cz job.jdl**
- **AliEn installed** on golias by Jiri Chudoba without root privileges
- **Version 1.3 of GENIUS installed** by Roberto Barbera & Alberto Falzone in December last year**, now v. 2.2.0 in the process of installation**
- **Quite a number of aliroot PPR production jobs** run on the farm by Jiri
- **Involved in the LCG (GDB) project**

The PC farm at the FZU (3)

- **The future plans:**

- **Continue the DataGrid and LCG activities**
- **Support for D0, ATLAS, ALICE computations**
- **Expand the mass storage disc space with another 6 TB**
- **StarLight project: optical connection to Amsterodam 2.5 Gb/s**
- **Arrange for a dedicated new room for the farm, where also two PC farms of the CESNET association will be installed**
- **Become a Tier-2 center for ATLAS (ALICE?)**

The CESNET association

- Stands for **C**zech **E**ducational and **S**cientific **NET**work
- Czech NREN provider
- R&D on advanced network technologies and applications
- Internet2 international partner
- Participant of the GEANT project
- . . . . . .

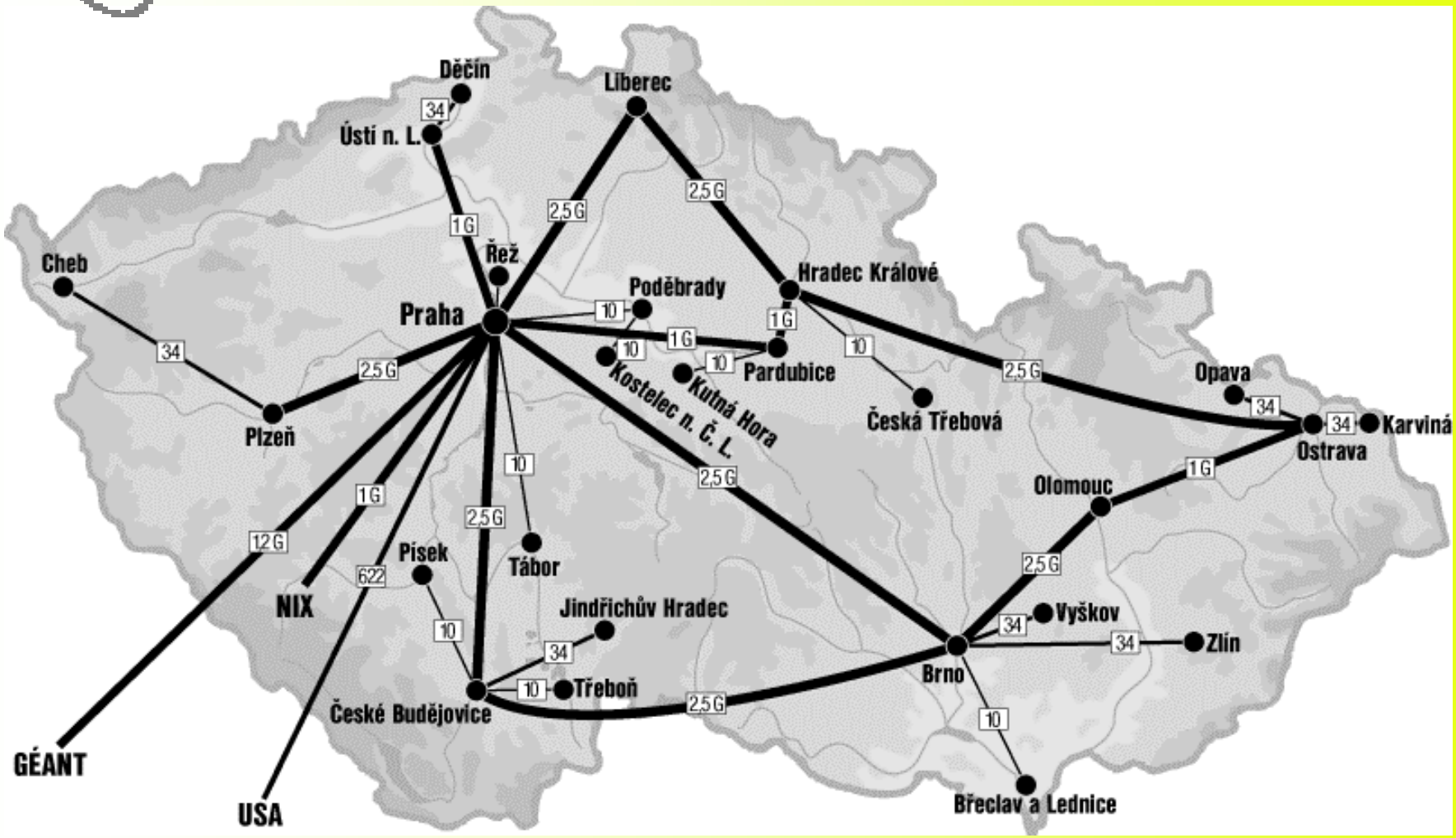
- http://www.ces.net/about/

CESNET (2)

- Subcontractor in EDG project
- **CESNET and FZU in Prague collaborate in the WP6 project of EDG**
- **CESNET CA provides PKI services for the Czech academic community (activity within WP6 project)**
- Member of WP1 : development and implemention of the logging and bookkeeping services and of the services taking care of security requirements within the work management system

A PC farm provided by CESNET

- CESNET is providing their PC farm connected to the 1.2Gbps backbone in frame of the collaboration with FZU in WP6
- The configuration
  - 16 + 1 dual processor nodes : PIII at 700 MHz, 1 GB memory, 9 GB HDD
  - running Debian 2.2 Linux
  - PBS batch system
- Farm is mostly used for D0 MC production
- Two nodes used for testing Grid software


Děčín
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1 G
Řež
Cheb
Poděbrady
Hradec Králové
Praha
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Pardubice
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Kostelec n. Č. L.
Kutná Hora
Česká Třebová
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Opava
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Karviná
Ostrava
Plzeň
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GÉANT
USA
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